Duncan R - 75

(12V75AH)

Specification

Nominal Voltage	12 VDC
Nominal Capacity (10 HR)	>/=75 Ah
Floating voltage range	13.5 - 13.72V
Dimensions	Length 259+/-3mm Width 168+/-2mm Container Hight 208+/-3mm Total Height (With Terminal) 214+/-3mm
Approx Weight	22.3 Kg.
Terminal	T6/T9
Container Material	ABS
Building material	Electrolyte, Type Gel, cadmium free, AGM, AGM-VRLA.
Rated Capacity	78.0 Ah/3.90A (20hr, 1.80 V/Cell, 25°C/77°F) 75.0 Ah/7.50A (10hr, 1.80 V/Cell, 25°C/77°F) 64.5 Ah/12.9A (5 hr, 1.75 V/Cell, 25°C/77°F) 58.5 Ah/19.5A (3 hr, 1.75 V/Cell, 25°C/77°F) 45.8 Ah/45.8A (1 hr, 1.60 V/Cell, 25°C/77°F)
Max. Discharge Current	900A (5s)
Internal Resistance	Approx 6.6 m ohms
Operating Temp. Range	Discharge -15 - 50°C (5-122°F) Charge 0 - 40°C (32-104°F) Storage -40 - 40°C (5-104°F)
Nominal Operating Temp. Range	25+/-3°C (77+/-5°F)
Cycle Use	Initial charging current less than 22.5A voltage 14.4V-15.0V at 25°C (77°F) temp. Coefficient -20mV/°C
Working cycles	Continuous
Deep cycles	>1500
Standby Use	No limit on initial charging current voltage 13.5V-13.8V at 25°C (77°F) temp. Coefficient -20mV/°C
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	Duncan R series batteries may be stored for up to 6 months at 25°C (77°F) and then a fres hening charges is requiered. For higher temperatures the time interval will be shorter.
Depth of Discharge	Al >/=50%
Construction	Fully sealed and maintenance-free batteries
Maintenance	Grooming and cleaning only conectors
Plates	With out antimony and cadmium
Useful life	10 years
Accessories	Connectors and screws in stainless steel with eye terminals for wire #8
Permanent marker	Date, manufacture, warranty, capacity and reference

Applications

- *All purpose*
- *Uninterruptable Power Supply (UPS)*
- *Electric Power System (EPS)*
- *Emergency backup power supply*
- *Emergency light*
- *Railway signal*
- *Aircraft signal*
- *Alarm and security system*
- *Electronic apparatus and equipment*
- *Communication power supply*
- *DC power supply*
- *Auto control system*

VdS | Intertek ETL SEMKO MH26866 | ISO14001 | ISO9001 | CE EMC

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	128.4	100.9	85.8	71.8	57.1	43.2	35.4	22.5	17.8	14.5	11.7	10.2	8.29	7.08	3.86
1.80V/cell	172.3	128.9	103.7	84.9	67.3	50.2	39.6	24.6	19.2	15.5	12.6	10.9	8.79	7.50	3.90
1.75V/cell	194.3	141.7	113.3	91.3	69.9	52.1	41.4	25.5	19.5	15.9	12.9	11.2	8.94	7.58	3.94
1.70V/cell	213.9	154.4	120.9	95.9	72.7	54.2	42.7	26.5	20.1	16.3	13.2	11.5	9.07	7.65	4.01
1.65V/cell	235.9	166.7	128.6	101.9	76.7	55.6	44.2	27.2	20.9	16.8	13.6	11.7	9.21	7.81	4.07
1.60V/cell	260.2	180.9	137.5	108.6	81.0	57.9	45.8	28.2	21.6	17.4	14.1	12.0	9.30	7.89	4.09

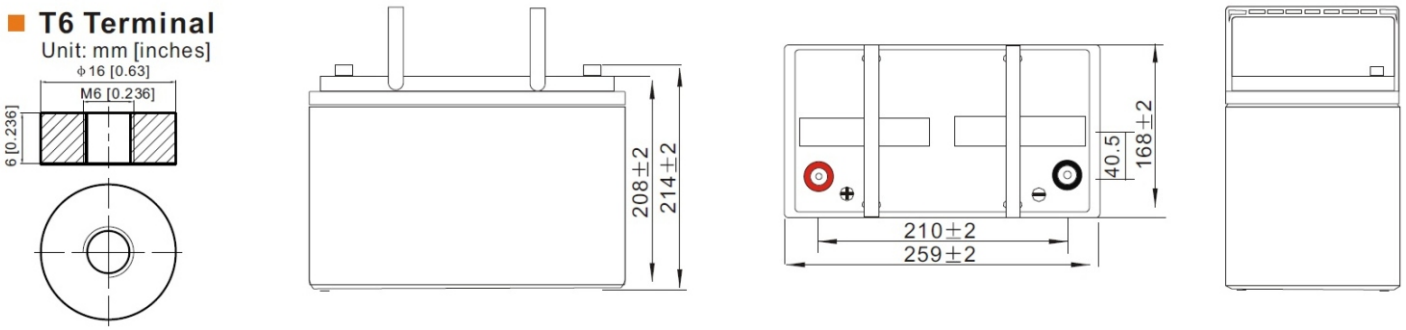
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	234.7	186.4	160.1	135.3	108.7	83.0	68.2	43.7	34.7	28.4	23.0	20.1	16.4	14.0	7.65
1.80V/cell	311.7	235.4	190.9	157.6	126.3	95.8	76.0	47.4	37.1	30.2	24.6	21.4	17.3	14.8	7.71
1.75V/cell	343.9	254.5	205.9	167.9	130.1	98.4	79.1	49.0	37.7	30.8	25.1	22.0	17.6	14.9	7.78
1.70V/cell	368.2	271.1	216.8	175.1	134.6	102.0	81.4	50.8	38.7	31.5	25.7	22.4	17.8	15.1	7.92
1.65V/cell	400.3	289.9	228.8	184.7	140.9	103.6	83.5	52.0	40.1	32.5	26.3	22.8	18.0	15.4	8.02
1.60V/cell	431.3	307.6	240.6	194.6	147.7	107.4	86.0	53.4	41.2	33.4	27.1	23.2	18.2	15.5	8.05

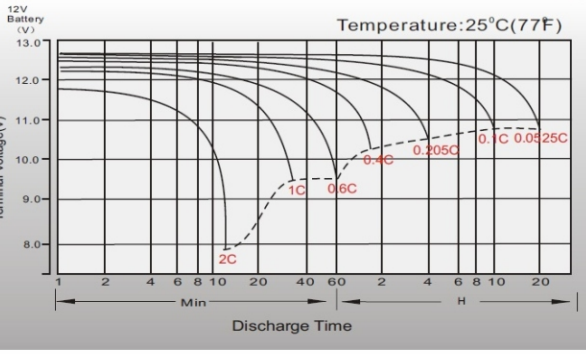
Dimensions

T6 Terminal

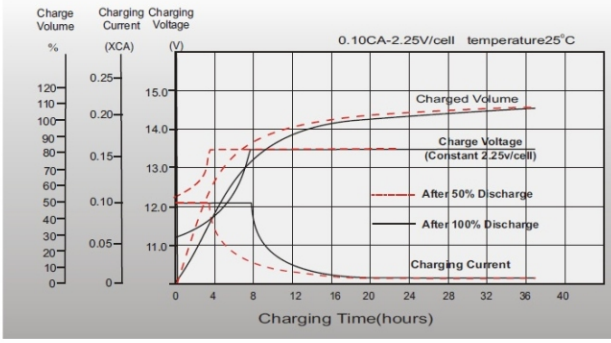
Unit: mm [inches]



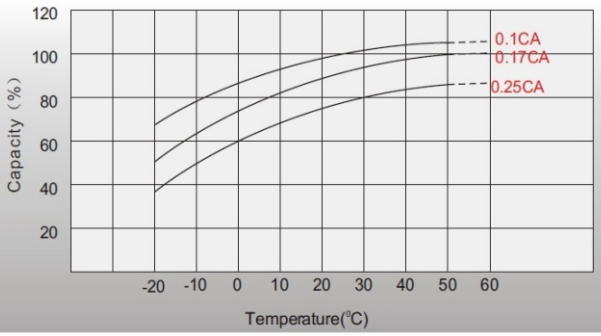
Discharge Characteristics



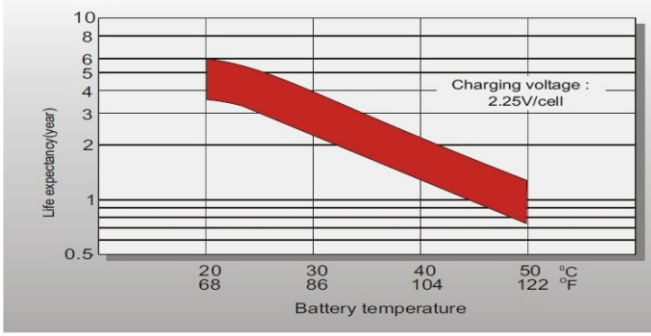
Float Charging Characteristics



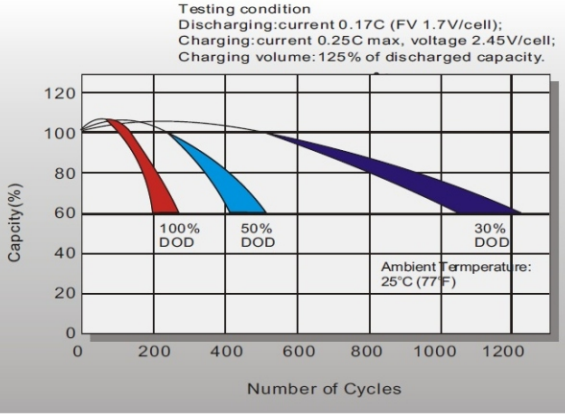
Temperature Effects in Relation to Battery Capacity



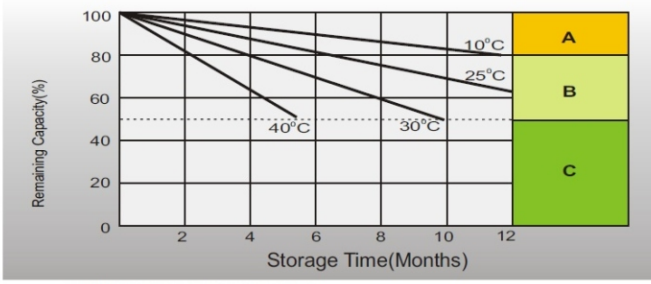
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Sales Office